

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0341	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0341 Sherman Island	U	9.62						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.87		1.87	19.44%				
Encroachments					0.18			
<i>Supplemental</i>								
USACE Erosion Survey	0.04	0.29	1.20	12.47%				
<i>LMA Totals:</i>	1.91	0.29	3.07	31.91%	0.18	0.00	0.00	0.00

Unit No. 01 Threemile Slough RB	Overall Unit Rating	Total Unit Miles						
RD0341	A	3.34						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

Unit No. 02 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
RD0341	U	6.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.87		1.87	29.78%				
Encroachments					0.18			
<i>Supplemental</i>								
USACE Erosion Survey	0.04	0.29	1.20	19.11%				
<i>Unit Totals:</i>	1.91	0.29	3.07	48.89%	0.18	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Reclamation District No. 0341 Sherman Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0341 Sherman Island

Waterway			Bank	Unit Miles
Unit No. 01 Threemile Slough			Right	3.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/15/2012 - 03/15/2012		11/08/2012 - 11/08/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Gene Peck RD 341			
	Joel D. McElroy RD 341			
	Henry Matsunaga Wagner & Bonsignore Engineering			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2012

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough							Right	3.34	11/08/2012 11/08/2012	Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	8
								°	°	
								DWR ID: DWR_RD0341_01_s_2012_8		
2			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	9
								°	°	
								DWR ID: DWR_RD0341_01_s_2012_9		
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	10
								°	°	
								DWR ID: DWR_RD0341_01_s_2012_10		
4	0.00	0.00	Earthen Levee	Vegetation	WS	A Ob	V1 : Control annual grass and weeds on the levee slopes and easements.	38.085580 ° -121.685466 °	38.085580 ° -121.685466 °	1 Y
								DWR ID: DWR_RD0341_01_s_2012_1		
5	1.25	1.75	Earthen Levee	Encroachments	LS	C En	FE : Fence	38.099663 ° -121.706390 °	38.098232 ° -121.706273 °	4
								DWR ID: DWR_RD0341_01_s_2012_4		
6	1.84	1.94	Earthen Levee	Vegetation	WS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.112078 ° -121.684165 °	38.113486 ° -121.684075 °	3
								DWR ID: DWR_RD0341_01_s_2012_3		

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	N : Not Inspected/Rated	Ob : Design & System Obsolescence
CR : Crown	M : Minimally Acceptable	En : Enforcement
	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.34	11/08/2012 11/08/2012	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Earthen Levee
Item	Vegetation
RD 341 looking downstream from levee mile 0.00. Photo taken 11-08-2012.	
phillips_f_20121119_383.jpg	



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0341 Sherman Island

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	6.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	03/15/2012 - 03/15/2012		11/08/2012 - 11/08/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Joel Mc Elroy RD 341			
	Henry Matsunaga Wagner & Bonsignore			

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0341 Sherman Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River				Left	6.28	11/08/2012 11/08/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	3.45	3.45	Earthen Levee	Vegetation	LS	A Ob	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The levee slopes are mowed and the District has done a great job maintaining the levee sections.	38.104668 ° -121.704349 °	38.104668 ° -121.704349 °	12 Y
DWR ID: DWR_RD0341_02_s_2012_12										
2	4.15	4.19	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - Large new erosion pocket probably hidden by vegetation in the past. 2012: No observed change. [2012 Site ID: SAC_8-2_L]	38.095148 ° -121.706367 °	38.094590 ° -121.706393 °	4 Y
DWR ID:										
3	4.46	5.04	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.090363 ° -121.706227 °	38.083138 ° -121.711478 °	1 Y
DWR ID: DWR_RD0341_02_f_2012_1										
4	4.52	4.60	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 1999 - New small slump in eroded bank. 2005 - Reach extended because of vertical bank along the roadway upstream. 2011 - More slumping since last year. 2012: Site upgraded to critical. Very steep slope which may be effecting the highway on top of the levee. [2012 Site ID: SAC_8-0_L]	38.090620 ° -121.706684 °	38.088572 ° -121.707127 °	5 Y
DWR ID:										
5	4.73	4.81	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 2011 - Large slump section 2012: Site extended downstream, upgrade to critical, severe windwave. Slope is very steep and may be effecting the highway on top of the levee. [2012 Site ID: SAC_7-9_L]	38.086603 ° -121.707786 °	38.085459 ° -121.708607 °	7 Y
DWR ID:										
6	5.25	5.86	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.082194 ° -121.715246 °	38.080228 ° -121.726459 °	2 Y
DWR ID: DWR_RD0341_02_f_2012_2										
7	5.49	5.81	Earthen Levee	Trim / Thin Trees	LS	C Ma	T1 : Trim trees to at least five feet above ground level.	38.081252 ° -121.719488 °	38.080513 ° -121.725628 °	10 Y
DWR ID: DWR_RD0341_02_s_2012_10										
8	5.96	6.09	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 2011 - Large slump at downstream end. Gully formed from surface runoff from the road. Shallow slumping throughout site. 2012: The gully at upstream end has increased in size and site continues to worsen. [2012 Site ID: SAC_7-3_L]	38.080370 ° -121.728341 °	38.080526 ° -121.730483 °	8 Y
DWR ID:										
9	6.21	6.35	Earthen Levee	Trim / Thin Trees	LS	C Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	38.080723 ° -121.731799 °	38.081545 ° -121.735244 °	11 Y
DWR ID: DWR_RD0341_02_s_2012_11										
10	6.32	7.00	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.082266 ° -121.730401 °	38.078770 ° -121.744280 °	3 Y
DWR ID: DWR_RD0341_02_f_2012_3										
11	7.92	8.10	Earthen Levee	Encroachments	LS	M En	FE : Fence	38.073268 ° -121.759500 °	38.072275 ° -121.762510 °	6 Y
DWR ID: DWR_RD0341_02_s_2012_6										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	11/08/2012 11/08/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 341 Unit 2 waterside looking downstream levee mile 3.47. Photo taken 11-08-2012.

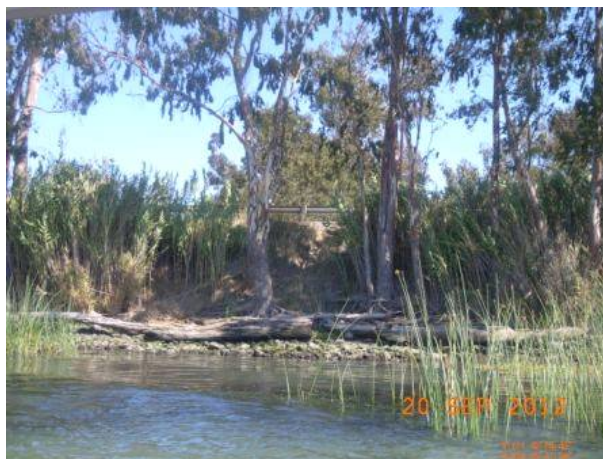
phillips_f_20121119_387.jpg



Levee Mile Report Line	2
Start Levee Mile	4.15
End Levee Mile	4.19
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_8-2_L_1.jpg



Levee Mile Report Line	4
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_8-0_L_1.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	11/08/2012 11/08/2012	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_8-0_L_2.jpg



Levee Mile Report Line	4
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_8-0_L_3.jpg



Levee Mile Report Line	4
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012_SAC_8-0_L_4.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	11/08/2012 11/08/2012	Herman Phillips

Levee Mile Report Line	5
Start Levee Mile	4.73
End Levee Mile	4.81
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_7-9_L_1.jpg



Levee Mile Report Line	5
Start Levee Mile	4.73
End Levee Mile	4.81
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_7-9_L_2.jpg



Levee Mile Report Line	8
Start Levee Mile	5.96
End Levee Mile	6.09
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_7-3_L_1.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	11/08/2012 11/08/2012	Herman Phillips

Levee Mile Report Line	8
Start Levee Mile	5.96
End Levee Mile	6.09
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_SAC_7-3_L_2.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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